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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,277	07/08/2003	Thomas R. Bednar	BUR920020092US1	1276
30449 75	590 03/11/2005		EXAMINER	
SCHMEISER, OLSEN + WATTS			TAT, BINH C	
3 LEAR JET L. SUITE 201	ANE		ART UNIT PAPER NUMBER	
LATHAM, NY	7 12110		2825	
			DATE MAILED: 03/11/200:	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			X
	Application No.	Applicant(s)	
	10/604,277	BEDNAR ET AL	
Office Action Summary	Examiner	Art Unit	
	Binh C. Tat	2825	_
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence address -	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of thicked will apply and will expire SIX (6) MO atute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communicated the communicated that is a second communicated the communicated that is a second communicated the communicated that is a second comm	ation.
Status			
1) Responsive to communication(s) filed on 17	7 December 2004.		
2a)⊠ This action is FINAL. 2b)□ T			
3) Since this application is in condition for allo	wance except for formal mat	ters, prosecution as to the merit	s is
closed in accordance with the practice unde	er <i>Ex parte Quayl</i> e, 1935 C.I	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 21-40 is/are pending in the application 4a) Of the above claim(s) is/are without 5) Claim(s) is/are allowed. 6) Claim(s) 21-40 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and application Papers	drawn from consideration.		
	·		
9) The specification is objected to by the Exam 10) The drawing(s) filed on <u>08 July 2003</u> is/are:		cted to by the Examiner	
Applicant may not request that any objection to t			
Replacement drawing sheet(s) including the сол		• •	21(d).
11) The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152	2.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bur * See the attached detailed Office action for a least open company.	ents have been received. ents have been received in A priority documents have been eau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)	△ □	C (DTC 440)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ 	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:	• • • • • • • • • • • • • • • • • • • •	

Art Unit: 2825

DETAILED ACTION

This is a response to the response filed on 12/21/04. The applicant argument regarding Buffet et al are not persuasive; therefore, all the rejections based on Buffet et al are retained and repeated for the following reasons.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 25-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Buffet et al. (U.S Patent 6631502).
- As to claims 21, and 31, Buffet et al. disclose an electrical structure comprising: a parent terrain denoted as V0 (see fig 2 element 120 col 5 lines 35-41); and N voltage islands denoted as V1, Mz,..., Vx nested within said parent terrain, N at least 2 (see fig 2 element 110 col 5 lines 42-45), voltage island Vz nested within a voltage island Vz-1 for Z=1, 2,..., N. 22 (see fig 2 element 105 col 5 lines 45-56).
- 4. As to claims 22, and 32, Buffet et al. disclose wherein each voltage island of the N voltage island includes one or more voltage power supplies selected from the group consisting of an internal voltage island VDDI power supply, an externally supplied state saving VDDSS

power supply, an externally supplied VDDN power supply, and combinations thereof (see fig 1 fig 2 col5 lines 11-30).

- As to claims 23, and 33, Buffet et al. disclose wherein said one or more power supplies of voltage island Vx for Xr--zl, 2,..., N are each independently coupled to one of (a) said one or more power supplies of voltage island Vv. for Y=1, 2,..., N, X not equal to Y, (b) a VDDO power supply of said parent terrain or (c) one or more external to said parent terrain power supplies (see fig 1 fig 2 and fig 3 col5 lines 11-30 and line 57 to col 6 lines 8).
- 6. As to claims 24, and 34, Buffet et al. disclose wherein each voltage island of the N voltage islands includes (a) an externally supplied VDDN power supply and a voltage shifting means, or (b) said externally supplied VDDN power supply and a fencing means or (c) said externally supplied VDDN power supply, said voltage shifting means and said fencing means (see fig 2-4 and fig 9a-9b col 5 lines 11 to col 6 lines 60 and col 8 lines 30 lines 30 to col 9 lines 42).
- 7. As to claims 25, and 35, Buffet et al. disclose wherein said fencing means comprises logic latches (see fig 2-4 and fig 9a-9b col 5 lines 11 to col 6 lines 60 and col 8 lines 30 lines 30 to col 9 lines 42 and background).
- 8. As to claims 26, and 36, Buffet et al. disclose wherein each voltage island of the N voltage islands further includes one or more substructures selected from the group consisting of (a) an internal voltage island VDDI power distribution network, (b) state saving means, (c) one or more switching elements coupled between said externally supplied VDDN power supply and said internal voltage island VDDI power distribution network, and (d) one or more voltage

Application/Control Number: 10/604,277

Art Unit: 2825

buffering circuit (see fig 2-4 and fig 9a-9b col 5 lines 11 to col 6 lines 60 and col 8 lines 30 lines 30 to col 9 lines 42).

- 9. As to claims 27, and 37, Buffet et al. disclose wherein said one or more switching elements is selected from the group consisting of hard connections, voltage regulators headers and footers (see fig 2-4 and fig 9a-9b col 5 lines 11 to col 6 lines 60 and col 8 lines 30 lines 30 to col 9 lines 42 and background).
- 10. As to claims 28, and 38, Buffet et al. disclose wherein said state saving means includes at least one state saving latch (see fig 2-4 and fig 9a-9b col 5 lines 11 to col 6 lines 60 and col 8 lines 30 lines 30 to col 9 lines 42 and background)
- 11. As to claims 29, and 39, Buffet et al. disclose wherein one or more voltage islands of the N voltage islands further includes a power management state machine coupled to an internal voltage island VDDI power supply distribution network, said power management state machine of voltage island Vx for X=1, 2,..., N located in (a) voltage island Vv for Y=1, 2...., N, Y less than X, or (b) in said parent terrain (see fig 1 fig 2 and fig 3 col5 lines 11-30 and line 57 to col 6 lines 8.
- 12. As to claims 30, and 40, Buffet et al. disclose wherein said parent terrain is an integrated circuit chip or a voltage island within said integrated circuit chip (see fig 2 element 120 col 5 lines 35-41).

Application/Control Number: 10/604,277

Art Unit: 2825

Response to Amendment and Arguments

Applicant's arguments filed December 17th, 2004 have been fully considered but they are not persuasive.

Applicant contends that Buffet et al do not describe "a parent terrain denoted as V0; and N voltage islands denoted as V1, Mz,..., Vx nested within said parent terrain, N at least 2, voltage island Vz nested within a voltage island Vz-1 for Z=1, 2,..., N. 22" probes as claimed. In response to Applicant's argument that Buffet et al do not describe "a parent terrain denoted as V0; and N voltage islands denoted as V1, Mz,..., Vx nested within said parent terrain, N at least 2, voltage island Vz nested within a voltage island Vz-1 for Z=1, 2,..., N. 22" probes as claimed, Examiner respectfully disagrees. Applicant is directed to a parent terrain denoted as V0 (see fig 2 element 120 col 5 lines 35-41); and N voltage islands denoted as V1, Mz,..., Vx nested within said parent terrain, N at least 2 (see fig 2 element 110 col 5 lines 42-45), voltage island Vz nested within a voltage island Vz-1 for Z=1, 2,..., N. 22 (see fig 2 element 105 col 5 lines 45-56). For this reason, examiner holds the rejection proper.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

1. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

Application/Control Number: 10/604,277

Art Unit: 2825

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Binh C. Tat whose telephone number is (703) 305-4855. The

examiner can normally be reached on 7:30 - 4:00 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mathew Smith can be reached on (703) 308-1323. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BINH TAT
Art Unit 2825

March 5, 2005

VUTHE SIEK
PRIMARY EXAMINER